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48103

Interoffice Memorandum



000059110

DATE: October 16, 1995

TO: Andy Ledford, ER Projects, X8673

FROM: Win Chromec, Ph.D., Technical Support, X4535

SUBJECT: SCREENING OF DATA FOR OU4 SOILS AND POND LINERS: Comparison
with Residential PPRG Values for Selected RCRA Constituents 95-FWC-015

Data for OU4 subsurface soils in Area of Concern no. 1 (AOC1) were compared with the values for preliminary programmatic remediation goals (PPRGs), which were calculated on 7-11-95 using EPA toxicity data. All subsurface soil results for inorganic constituents that exceed the background upper tolerance limits (UTLs) and the corresponding PPRG values, in addition to all organic constituents detected at concentrations greater than the PPRGs, are listed in Table 1. Data for OU4 surficial soils in AOC1 were also screened against UTLs and PPRGs, using UTLs from the Background Soils Characterization Program (DOE, 1995); screened output is presented in Table 2.

Using guidance from OU4 managers, subsurface soil (borehole), surface soil, and liner data were screened for the following RCRA constituents: characteristic (D006) and listed (F001, F002, F005, F006, F007, F009) wastes. Specific constituents screened include cadmium (D006), arsenic, barium, chromium, lead, mercury, selenium, silver, 1,1,1-trichloroethane (CAS number = 71-55-6), 2-butanone (78-93-3), 4-methyl-2-pentanone (108-10-1), acetone (67-64-1), carbon disulfide (75-15-0), carbon tetrachloride (56-23-5), chlorobenzene (108-90-7), dichlorodifluoromethane (75-71-8), ethylbenzene (100-41-4), hexachlorobenzene (118-74-1), methylene chloride (75-09-2), tetrachloroethene (127-18-4), toluene (108-88-3), trichloroethene (79-01-6), trichlorofluoromethane (75-69-4), total xylenes (1330-20-7), m-xylene (108-38-3), o-xylene (95-47-6), and p-xylene (106-42-3).

Subsurface Soil

Barium and lead exceeded the corresponding UTLs for subsurface soils (372 and 31 mg/kg, respectively) once each; however, the UTL exceedances for barium and lead were less than the values of the residential PPRGs (19100 mg/kg for barium; no PPRG for lead, 400 mg/kg is EPA residential guideline). Cadmium in subsurface soils exceeded the UTL (2.34 mg/kg) numerous times, but only three of these exceedances were greater than the value of the PPRG (137 mg/kg) for the residential exposure scenario (Table 1). All three PPRG exceedances were at the same location.

Organic constituents detected at least once in AOC1 subsurface soils (Table 3) include bis(2-ethylhexyl)phthalate, bromodichloromethane, 2-butanone, acetone, methylene chloride,

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tetrachloroethene, toluene, and trichloroethene. However, only bis(2-ethylhexyl)phthalate, bromodichloromethane, and tetrachloroethene were measured at concentrations exceeding the residential PPRG values (Table 1). Of these three constituents that exceed the PPRGs, only tetrachloroethene is RCRA listed (see paragraph two). However, tetrachloroethene was only detected in two samples collected in 1987; both are J qualified and are not validated. The lack of any more recent detections for this compound argues for the dismissal of tetrachloroethene as a RCRA-listed site contaminant in OU4 subsurface soils of AOC1.

Surface Soils

There were two exceedances of the residential PPRG for cadmium in surface soils (Table 2). No other metals listed in paragraph two were above the residential PPRG. None of the organic constituents detected in surface soil were above the residential PPRG.

Pond Liners

The A, B and C series pond liner materials had no exceedances of residential PPRGs for detected metals. Newly received data for C pond shows one exceedance for arsenic in the subsurface materials (27.2 mg/kg in subsurface).

Please contact myself (x4535) or Mary Siders (X4330) if you have any questions.

cc (w/o attachments):

Mary Siders
Karen Weimelt, Kaiser Hill
ERPD Records (2)

TABLE 1

SUBSURFACE (BOREHOLE) SOILS IN AOC1 OF OU4 (LISTING OF RESULTS > RESIDENTIAL PRG VALUES)

File BH4_RISK.TAB

Data from RFEDS for OU4 AOC1 Subsurface Soils; All Years

FILE: BH4_TM07 - Total metals > Residential PRG values for Soil/Sediment
 Data from RFEDS for OU4 Subsurface Soils of AOC1; All Years

OBS	LOCATION	SAMPLE	SDATE	ANALYTE	RESULT	UNITS	DETECT	QUAL	UTL	RES_PRG	VAL	RATIO
1	42493	BH40112AE	03/23/93	CADMIUM	340	MG/KG	5		0	137	V	2.48175
2	42493	BH40438AE	03/23/93	CADMIUM	362	MG/KG	5		0	137	V	2.64234
3	42493	BH40439AE	03/23/93	CADMIUM	547	MG/KG	5		0	137	V	3.99270
4	40993	BH40204AE	03/03/93	MANGANESE	3140	MG/KG	10		1194	1360	V	2.30882

FILE: BH4_TR07 - All total rads > Residential PRG values for Soil/Sediment
 Data from RFEDS for OU4 Subsurface Soils of AOC1; All Years

OBS	LOCATION	SAMPLE	SDATE	ANALYTE	RESULT	UNITS	DETECT	ERROR	QUAL	UTL	RES_PRG	VAL	RATIO
1	41793	BH40243AE	02/19/93	AMERICIUM-241	2.1000	PCI/G	0.01900	0.3900		0.022	1.9000	A	1.11
2	43693	BH40518AE	03/24/93	AMERICIUM-241	2.4800	PCI/G	0.00472	0.2660		0.022	1.9000	A	1.31
3	41693	BH40217AE	02/22/93	AMERICIUM-241	2.7000	PCI/G	0.00500	0.4200		0.022	1.9000	A	1.42
4	43593	BH40180AE	01/26/93	AMERICIUM-241	3.7000	PCI/G	0.00600	0.3800		0.022	1.9000	V	1.95
5	43693	BH40518AE	03/24/93	CESIUM-137	0.1382	PCI/G	0.04500	0.0398	X	0.129	0.0199	A	6.94
6	43193	BH40306AE	02/12/93	CESIUM-137	0.1600	PCI/G	0.20000	0.1300	U	0.129	0.0199	V	8.04
7	41793	BH40243AE	02/19/93	CESIUM-137	0.4200	PCI/G	0.18000	0.1500	J	0.129	0.0199	V	21.11
8	41793	BH40243AE	02/19/93	PLUTONIUM-239/240	2.9000	PCI/G	0.03700	0.6400		0.025	2.5100	V	1.16
9	41693	BH40217AE	02/22/93	PLUTONIUM-239/240	3.0000	PCI/G	0.00400	0.4000		0.025	2.5100	V	1.20
10	43593	BH40180AE	01/26/93	PLUTONIUM-239/240	20.0000	PCI/G	0.00500	3.8000	B	0.025	2.5100	A	7.97
11	46893	BH40749AE	11/19/93	RADIUM-226	1.5070	PCI/G	0.17900	0.3980	X	1.420	0.0062	A	244.25
12	46993	BH40770AE	11/22/93	RADIUM-226	1.5650	PCI/G	0.18600	0.4480	X	1.420	0.0062	A	253.65
13	46593	BH40703AE	11/06/93	RADIUM-226	1.5850	PCI/G	0.19200	0.3980	X	1.420	0.0062	V	256.89
14	46893	BH40748AE	11/19/93	RADIUM-226	1.6230	PCI/G	0.19000	0.4410	X	1.420	0.0062	A	263.05
15	46593	BH40711AE	11/08/93	RADIUM-226	1.7130	PCI/G	0.22800	0.4880	X	1.420	0.0062	V	277.63
16	46593	BH40700AE	11/06/93	RADIUM-226	1.8220	PCI/G	0.19100	0.4230	X	1.420	0.0062	V	295.30
17	46593	BH40705AE	11/08/93	RADIUM-226	1.8930	PCI/G	0.25800	0.5490	X	1.420	0.0062	V	306.81
18	43393	BH40517AE	03/18/93	RADIUM-226	1.9000	PCI/G	0.36000	0.3200		1.420	0.0062	V	307.94
19	46793	BH40740AE	11/10/93	RADIUM-226	1.9180	PCI/G	0.23400	0.4560	X	1.420	0.0062	A	310.86
20	46593	BH40713AE	11/08/93	RADIUM-226	1.9540	PCI/G	0.32600	0.7290	X	1.420	0.0062	V	316.69
21	46793	BH40731AE	11/10/93	RADIUM-226	2.0690	PCI/G	0.21600	0.6340	X	1.420	0.0062	A	335.33
22	46893	BH40754AE	11/19/93	RADIUM-226	2.0750	PCI/G	0.24100	0.5610	X	1.420	0.0062	A	336.30
23	46693	BH40718AE	11/09/93	RADIUM-226	2.1130	PCI/G	0.23400	0.5050	X	1.420	0.0062	V	342.46
24	46893	BH40825AE	11/19/93	RADIUM-226	2.2050	PCI/G	0.18600	0.5260	X	1.420	0.0062	A	357.37
25	46793	BH40732AE	11/10/93	RADIUM-226	2.2430	PCI/G	0.19800	0.5500	X	1.420	0.0062	A	363.53
26	46793	BH40742AE	11/10/93	RADIUM-226	2.3370	PCI/G	0.21700	0.5240	X	1.420	0.0062	A	378.77
27	46793	BH40823AE	11/10/93	RADIUM-226	2.6600	PCI/G	0.22600	0.6210	X	1.420	0.0062	A	431.12
28	46693	BH40728AE	11/09/93	RADIUM-226	2.6770	PCI/G	0.22900	0.6190	X	1.420	0.0062	V	433.87
29	46993	BH40759AE	11/22/93	RADIUM-226	2.8640	PCI/G	0.18100	0.5240	X	1.420	0.0062	A	464.18
30	46793	BH40729AE	11/10/93	RADIUM-226	3.0720	PCI/G	0.23300	0.6200	X	1.420	0.0062	A	497.89
31	46693	BH40726AE	11/09/93	RADIUM-226	3.2760	PCI/G	0.26900	0.6380	X	1.420	0.0062	V	530.96
32	46993	BH40757AE	11/22/93	RADIUM-226	4.5380	PCI/G	0.19300	0.6440	X	1.420	0.0062	A	735.49
33	46993	BH40830AE	11/22/93	RADIUM-226	5.4250	PCI/G	0.21000	0.7610	X	1.420	0.0062	A	879.25
34	46693	BH40715AE	11/08/93	RADIUM-226	5.8880	PCI/G	0.47900	0.8560	X	1.420	0.0062	V	954.29

35	46993	BH40768AE	11/22/93	RADIUM-226	6.8380	PCI/G	0.26500	0.9200	X	1.420	0.0062	A	1108.27
36	40993	BH40204AE	03/03/93	RADIUM-228 ⁷	2.4000	PCI/G	0.72000	0.6700		2.330	0.0127	V	188.98
37	42393	BH40261AE	01/27/93	RADIUM-228	2.4000	PCI/G	1.10000	0.8000		2.330	0.0127	V	188.98
38	42493	BH40441AE	03/23/93	RADIUM-228	2.4000	PCI/G	1.10000	0.8600		2.330	0.0127	V	188.98
39	43393	BH40510AE	03/18/93	RADIUM-228	2.4000	PCI/G	0.66000	0.6200		2.330	0.0127	V	188.98
40	42493	BH40440AE	03/23/93	RADIUM-228	2.6000	PCI/G	0.75000	0.6500		2.330	0.0127	V	204.72
41	43393	BH40511AE	03/18/93	RADIUM-228	2.6000	PCI/G	0.78000	0.6600		2.330	0.0127	V	204.72
42	42593	BH40446AE	03/16/93	RADIUM-228	2.9000	PCI/G	0.67000	0.5800		2.330	0.0127	V	228.35
43	42193	BH40425AE	03/19/93	RADIUM-228	3.0000	PCI/G	0.78000	0.9100		2.330	0.0127	V	236.22
44	42393	BH40264AE	01/27/93	RADIUM-228	3.5000	PCI/G	0.83000	0.7400		2.330	0.0127	V	275.59
45	42193	BH40425AE	03/19/93	URANIUM-233,-234	21.0000	PCI/G	0.02400	3.1000	B	3.713	17.5000	V	1.20
46	46693	BH40718AE	11/09/93	URANIUM-235	0.1591	PCI/G	0.07957	0.1120		0.153	0.1560	A	1.02
47	43693	BH40518AE	03/24/93	URANIUM-235	0.1651	PCI/G	0.02134	0.0440		0.153	0.1560	A	1.06
48	46993	BH40759AE	11/22/93	URANIUM-235	0.1713	PCI/G	0.06342	0.1120		0.153	0.1560	V	1.10
49	42193	BH40427AE	03/19/93	URANIUM-235	0.1800	PCI/G	0.03000	0.1600	J	0.153	0.1560	V	1.15
50	46793	BH40729AE	11/10/93	URANIUM-235	0.1825	PCI/G	0.13626	0.1700		0.153	0.1560	A	1.17
51	42593	BH40446AE	03/16/93	URANIUM-235	0.2600	PCI/G	0.01900	0.1600	J	0.153	0.1560	A	1.67
52	43693	BH40522AE	03/25/93	URANIUM-235	0.2600	PCI/G	0.02000	0.1600	J	0.153	0.1560	A	1.67
53	41593	BH40419AE	04/06/93	URANIUM-235	0.2700	PCI/G	0.01400	0.1400	BJ	0.153	0.1560	A	1.73
54	42493	BH40438AE	03/23/93	URANIUM-235	0.2900	PCI/G	0.03200	0.1700	J	0.153	0.1560	A	1.86
55	41593	BH40418AE	04/06/93	URANIUM-235	0.3000	PCI/G	0.01200	0.1400	B	0.153	0.1560	A	1.92
56	46993	BH40768AE	11/22/93	URANIUM-235	0.3832	PCI/G	0.08222	0.1640		0.153	0.1560	V	2.46
57	41693	BH40217AE	02/22/93	URANIUM-235	0.3900	PCI/G	0.01100	0.1500		0.153	0.1560	A	2.50
58	46693	BH40715AE	11/08/93	URANIUM-235	0.4156	PCI/G	0.08226	0.1800		0.153	0.1560	V	2.66
59	46993	BH40830AE	11/22/93	URANIUM-235	0.4983	PCI/G	0.05978	0.1740		0.153	0.1560	V	3.19
60	46993	BH40757AE	11/22/93	URANIUM-235	0.5193	PCI/G	0.05463	0.1910		0.153	0.1560	V	3.33
61	41593	BH40417AE	04/06/93	URANIUM-235	0.5900	PCI/G	0.01300	0.2000	B	0.153	0.1560	A	3.78
62	42193	BH40425AE	03/19/93	URANIUM-235	0.8700	PCI/G	0.01400	0.2700	B	0.153	0.1560	V	5.58
63	46693	BH40726AE	11/09/93	URANIUM-238	1.9680	PCI/G	0.07826	0.4660		1.807	0.7470	A	2.63
64	42493	BH40438AE	03/23/93	URANIUM-238	2.1000	PCI/G	0.03200	0.5400	B	1.807	0.7470	A	2.81
65	40993	BH40415AE	03/05/93	URANIUM-238	2.2000	PCI/G	0.04800	0.5400	B	1.807	0.7470	A	2.95
66	43393	BH40517AE	03/18/93	URANIUM-238	2.2000	PCI/G	0.01300	0.4700	B	1.807	0.7470	V	2.95
67	43393	BH40511AE	03/18/93	URANIUM-238	2.3000	PCI/G	0.01900	0.5800	B	1.807	0.7470	V	3.08
68	40993	BH40206AE	03/05/93	URANIUM-238	2.5000	PCI/G	0.02300	0.6900	B	1.807	0.7470	A	3.35
69	43693	BH40521AE	03/25/93	URANIUM-238	2.6000	PCI/G	0.01800	0.6200	B	1.807	0.7470	A	3.48
70	43693	BH40520AE	03/24/93	URANIUM-238	2.6040	PCI/G	0.01888	0.2950		1.807	0.7470	A	3.49
71	43393	BH40512AE	03/18/93	URANIUM-238	3.0000	PCI/G	0.01800	0.5200	B	1.807	0.7470	V	4.02
72	46793	BH40729AE	11/10/93	URANIUM-238	3.3330	PCI/G	0.15112	0.9790		1.807	0.7470	A	4.46
73	43693	BH40519AE	03/24/93	URANIUM-238	3.9490	PCI/G	0.01762	0.4250		1.807	0.7470	A	5.29
74	41593	BH40419AE	04/06/93	URANIUM-238	4.4000	PCI/G	0.01400	0.8000	B	1.807	0.7470	A	5.89
75	43393	BH40510AE	03/18/93	URANIUM-238	4.4000	PCI/G	0.01200	0.7400	B	1.807	0.7470	V	5.89
76	43693	BH40522AE	03/25/93	URANIUM-238	4.7000	PCI/G	0.03300	1.0000	B	1.807	0.7470	A	6.29
77	46993	BH40759AE	11/22/93	URANIUM-238	4.7250	PCI/G	0.08012	0.9030		1.807	0.7470	V	6.33
78	41693	BH40217AE	02/22/93	URANIUM-238	5.1000	PCI/G	0.01800	0.8100	B	1.807	0.7470	A	6.83
79	46693	BH40715AE	11/08/93	URANIUM-238	5.2840	PCI/G	0.07402	0.9840		1.807	0.7470	V	7.07
80	41593	BH40418AE	04/06/93	URANIUM-238	5.7000	PCI/G	0.02100	0.9300	B	1.807	0.7470	A	7.63
81	43693	BH40518AE	03/24/93	URANIUM-238	6.2660	PCI/G	0.01864	0.6430		1.807	0.7470	A	8.39
82	42593	BH40446AE	03/16/93	URANIUM-238	6.9000	PCI/G	0.03300	1.3000		1.807	0.7470	A	9.24
83	41593	BH40417AE	04/06/93	URANIUM-238	8.3000	PCI/G	0.02100	1.3000	B	1.807	0.7470	A	11.11
84	46993	BH40768AE	11/22/93	URANIUM-238	9.2880	PCI/G	0.07012	1.5200		1.807	0.7470	V	12.43
85	42193	BH40425AE	03/19/93	URANIUM-238	11.0000	PCI/G	0.01400	1.7000	B	1.807	0.7470	V	14.73
86	46993	BH40757AE	11/22/93	URANIUM-238	11.4600	PCI/G	0.07547	1.8100		1.807	0.7470	V	15.34
87	46993	BH40830AE	11/22/93	URANIUM-238	11.4800	PCI/G	0.05978	1.7200		1.807	0.7470	V	15.37

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FILE: BH4_UV05 - All VOC results > Residential PRG values
Data from RFEDS for OU4 Subsurface Soils of AOC1; All Years

OBS	LOCATION	SAMPLE	SDATE	ANALYTE	RESULT	UNITS	DETECT	WIN	QUAL	RES_PRG	VAL	RATIO
1	46593	BH40713AE	11/08/93	BIS(2-ETHYLHEXYL)PHTHALATE	46	UG/KG	330	2	J	45.7	A	1.0066
2	43693	BH40520AE	03/24/93	BIS(2-ETHYLHEXYL)PHTHALATE	50	UG/KG	360	2	J	45.7	A	1.0941
3	SP0387	SP038702DH	10/21/87	BIS(2-ETHYLHEXYL)PHTHALATE	830	UG/KG	330	2		45.7		18.1619
4	SP0487	SP0487004D	10/30/87	BROMODICHLOROMETHANE	25	UG/KG	25	2		10.3		2.4272
5	SP0487	SP048712DH	11/03/87	TETRACHLOROETHENE	23	UG/KG	25	2	J	12.3		1.8699

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TABLE 2

SURFACE SOILS IN AOC-1 OF OU4 (LISTING OF RESULTS > RESIDENTIAL PPRG VALUES)

File SS4_RISK.TAB

Data from RFEDS for OU4 AOC1 Surface Soils; All Years

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FILE: OU4_TM07 - Total metals > Residential PRG values for Soil/Sediment
Data from RFEDS for OU4 Surface Soils in AOC1; All Years

OBS	LOCATION	SAMPLE	SDATE	ANALYTE	RESULT	UNITS	DETECT	QUAL	UTL	RES_PRG	VAL	RATIO
1	41693	SS40410AE	02/12/93	BERYLLIUM	1.50	MG/KG	1		1.25	0.149	V	10.0671
2	SS402793	SS40043AE	05/20/93	BERYLLIUM	1.80	MG/KG	5		1.25	0.149	V	12.0805
3	SS402993	SS40045AE	05/27/93	BERYLLIUM	1.80	MG/KG	5		1.25	0.149	V	12.0805
4	41793	SS40077AE	02/09/93	BERYLLIUM	2.10	MG/KG	1		1.25	0.149	V	14.0940
5	SS400693	SS40022AE	05/27/93	BERYLLIUM	2.20	MG/KG	5		1.25	0.149	V	14.7651
6	43893	SS40010AE	02/05/93	BERYLLIUM	2.30	MG/KG	1		1.25	0.149	V	15.4362
7	SS400393	SS40019AE	05/27/93	BERYLLIUM	3.19	MG/KG	5		1.25	0.149	Z	21.4094
8	43793	SS40088AE	02/12/93	BERYLLIUM	3.60	MG/KG	1		1.25	0.149	V	24.1611
9	SS400593	SS40021AE	05/27/93	BERYLLIUM	4.60	MG/KG	5		1.25	0.149	V	30.8725
10	SS402893	SS40044AE	05/27/93	BERYLLIUM	9.60	MG/KG	5		1.25	0.149	V	64.4295
11	SS402893	SS40044AE	05/27/93	CADMIUM	194.00	MG/KG	5		2.34	137.000	V	1.4161
12	SS402793	SS40043AE	05/20/93	CADMIUM	356.00	MG/KG	5		2.34	137.000	V	2.5985

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FILE: OU4_TR07 - All total rads > Residential PRG values for Soil/Sediment
Data from RFEDS for OU4 Surface Soils in AOC1; All Years

OBS	LOCATION	SAMPLE	SDATE	ANALYTE	RESULT	UNITS	DETECT	ERROR	QUAL	UTL	RES_PRG	VAL	RATIO
1	SS401693	SS40032AE	12/30/92	AMERICIUM-241	2.132	PCI/G	0.00428	0.2310		0.037	1.900	A	1.1221
2	40993	SS40072AE	02/26/93	AMERICIUM-241	2.600	PCI/G	0.03700	0.3100		0.037	1.900	V	1.3684
3	SS402993	SS40045AE	05/27/93	AMERICIUM-241	3.200	PCI/G	0.30000	0.4400		0.037	1.900	A	1.6842
4	41793	SS40069AE	02/09/93	AMERICIUM-241	11.900	PCI/G	0.00497	1.2200		0.037	1.900	A	6.2632
5	41693	SS40410AE	02/12/93	AMERICIUM-241	12.000	PCI/G	0.05000	2.7000		0.037	1.900	A	6.3158
6	SS401893	SS40034AE	12/30/92	AMERICIUM-241	16.430	PCI/G	0.00385	1.8000		0.037	1.900	A	8.6474
7	SS400393	SS40019AE	05/27/93	AMERICIUM-241	27.000	PCI/G	0.60000	2.3000		0.037	1.900	A	14.2105
8	SS400693	SS40022AE	05/27/93	AMERICIUM-241	45.000	PCI/G	1.00000	4.0000		0.037	1.900	A	23.6842
9	43793	SS40088AE	02/12/93	AMERICIUM-241	65.000	PCI/G	0.12000	15.0000		0.037	1.900	A	34.2105
10	SS400593	SS40021AE	05/27/93	AMERICIUM-241	92.000	PCI/G	0.50000	6.9000		0.037	1.900	A	48.4211
11	SS402893	SS40044AE	05/27/93	AMERICIUM-241	130.000	PCI/G	0.80000	7.5000		0.037	1.900	A	68.4211
12	41693	SS40410AE	02/12/93	PLUTONIUM-239/240	4.900	PCI/G	0.00600	1.0000		0.084	2.510	V	1.9522
13	43193	SS40084AE	02/09/93	PLUTONIUM-239/240	5.324	PCI/G	0.00267	0.5320		0.084	2.510	A	2.1211
14	SS402393	SS40039AE	12/30/92	PLUTONIUM-239/240	5.329	PCI/G	0.00365	0.5630		0.084	2.510	V	2.1231
15	40993	SS40072AE	02/26/93	PLUTONIUM-239/240	7.200	PCI/G	0.03900	1.6000		0.084	2.510	V	2.8685
16	SS401893	SS40034AE	12/30/92	PLUTONIUM-239/240	7.448	PCI/G	0.00735	0.7580		0.084	2.510	V	2.9673
17	41793	SS40069AE	02/09/93	PLUTONIUM-239/240	15.040	PCI/G	0.01181	1.4800		0.084	2.510	A	5.9920
18	43793	SS40088AE	02/12/93	PLUTONIUM-239/240	17.000	PCI/G	0.00600	3.7000		0.084	2.510	V	6.7729
19	SS402793	SS40043AE	05/20/93	PLUTONIUM-239/240	56.000	PCI/G	0.03000	10.0000		0.084	2.510	A	22.3108
20	42393	SS40079AE	01/27/93	URANIUM-235	0.170	PCI/G	0.02400	0.1400	J	0.130	0.156	V	1.0897
21	41793	SS40069AE	02/09/93	URANIUM-235	0.173	PCI/G	0.04816	0.0908		0.130	0.156	A	1.1103
22	43793	SS40088AE	02/12/93	URANIUM-235	0.210	PCI/G	0.03500	0.1900	J	0.130	0.156	A	1.3462
23	43893	SS40010AE	02/05/93	URANIUM-235	0.210	PCI/G	0.04600	0.1300	J	0.130	0.156	V	1.3462
24	40993	SS40412AE	02/26/93	URANIUM-235	0.260	PCI/G	0.03500	0.2200	J	0.130	0.156	A	1.6667
25	SS402893	SS40044AE	05/27/93	URANIUM-235	0.300	PCI/G	0.08000	0.1200		0.130	0.156	V	1.9231
26	SS402793	SS40043AE	05/20/93	URANIUM-235	0.490	PCI/G	0.02400	0.1000		0.130	0.156	V	3.1410

27	SS400593	SS40021AE	05/27/93	URANIUM-235	0.750	PCI/G	0.08000	0.1900	0.130	0.156	V	4.8077	
28	SS402893	SS40044AE	05/27/93	URANIUM-238	4.700	PCI/G	0.09000	0.5600	2.830	0.747	V	6.2918	
29	43893	SS40010AE	02/05/93	URANIUM-238	5.200	PCI/G	0.02500	0.9500	B	2.830	0.747	V	6.9612
30	43793	SS40088AE	02/12/93	URANIUM-238	5.500	PCI/G	0.05900	1.5000	B	2.830	0.747	A	7.3628
31	SS402793	SS40043AE	05/20/93	URANIUM-238	6.300	PCI/G	0.00600	0.6100	B	2.830	0.747	V	8.4337
32	SS400593	SS40021AE	05/27/93	URANIUM-238	8.400	PCI/G	0.10000	0.8900	2.830	0.747	V	11.2450	

FILE: OU4_UV04 - All VOC/SVOC results > Residential PRG values
 Data from RFEDS for OU4 Surface Soils in AOC1; All Years

No results > residential PPRGs

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